

APPLN. FILING DATE: MARCH 21, 2001  
TITLE: MATRIX MULTIPLICATION IN A VECTOR  
PROCESSING SYSTEM  
INVENTOR(S): ALI SAZEGARI  
APPLICATION SERIAL NO: UNASSIGNED

SHEET 1 of 15

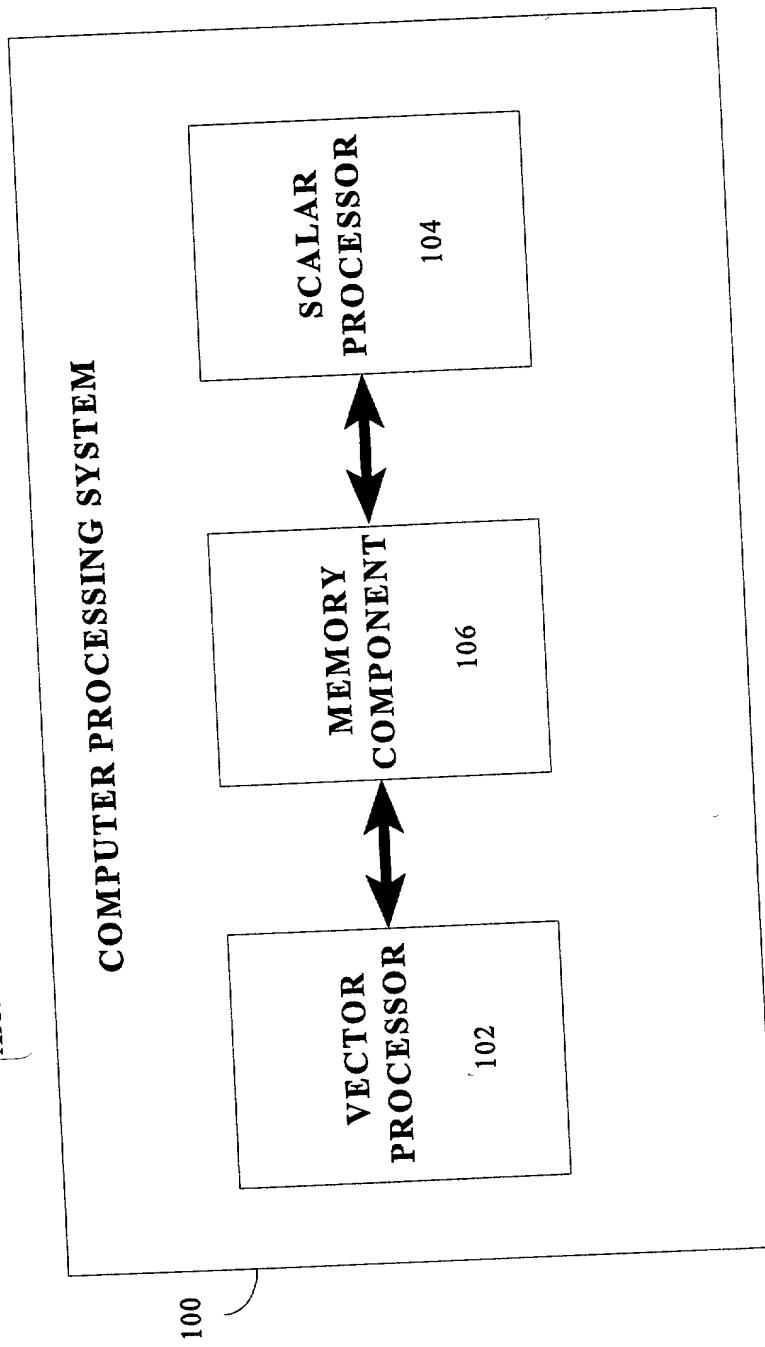


FIGURE 1

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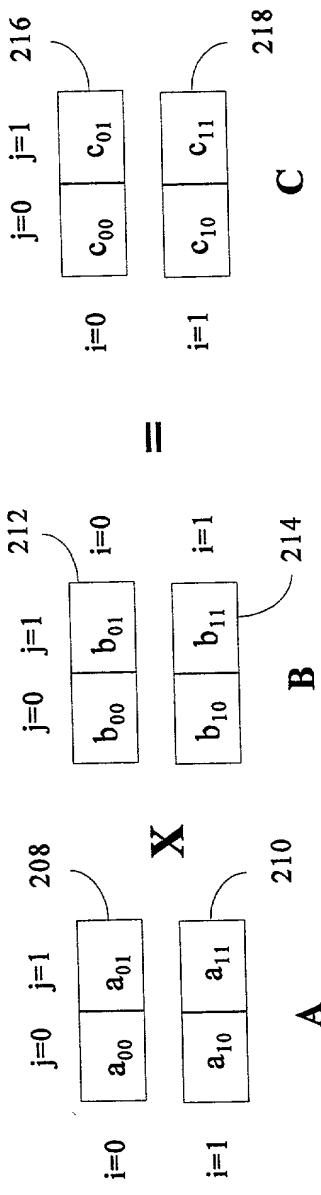


FIGURE 2

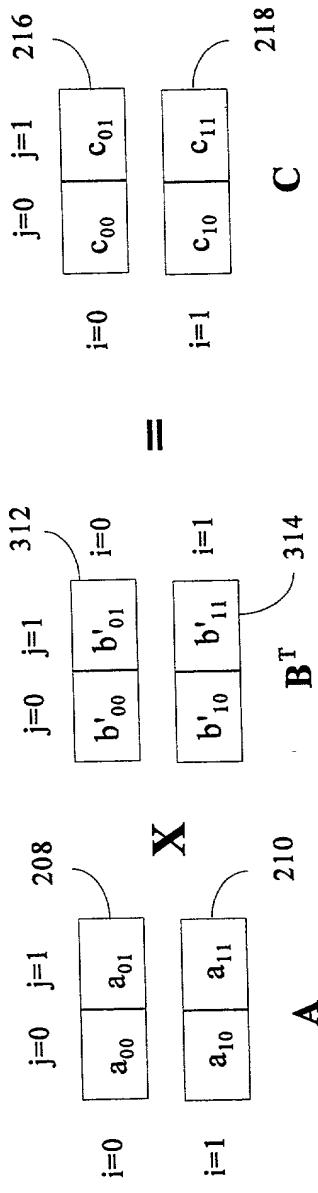
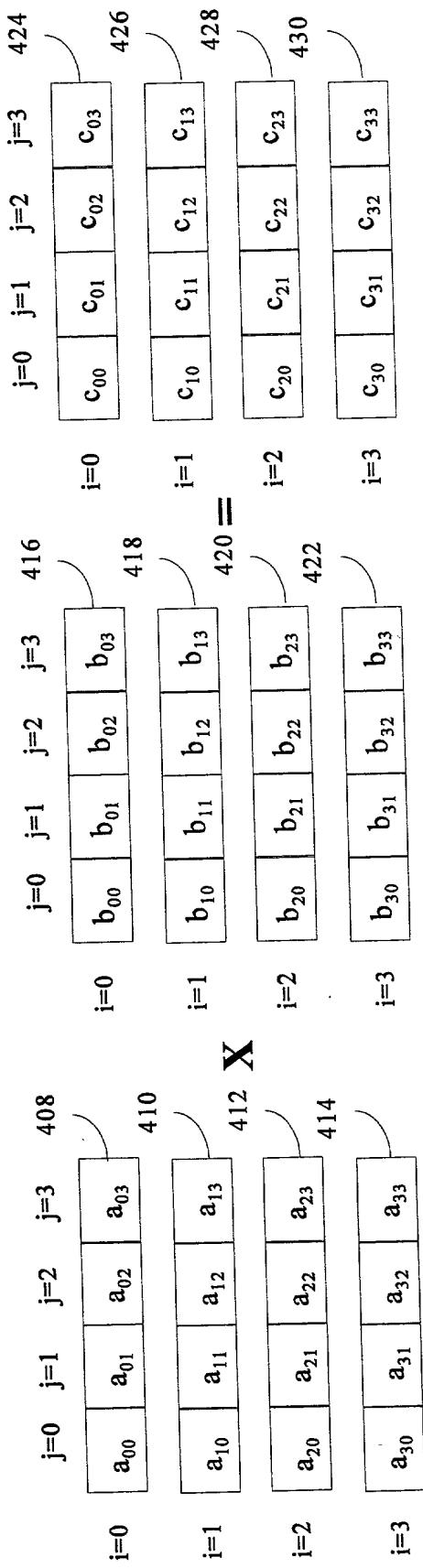


FIGURE 3

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**D**  

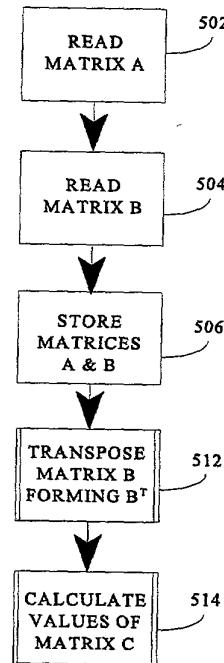
$$420 = \boxed{b_{00} \mid b_{01} \mid b_{02} \mid b_{03}}_{418} + \boxed{b_{10} \mid b_{11} \mid b_{12} \mid b_{13}}_{420} + \boxed{b_{20} \mid b_{21} \mid b_{22} \mid b_{23}}_{422} + \boxed{b_{30} \mid b_{31} \mid b_{32} \mid b_{33}}_{430}$$

**E**

**F**  

$$426 = \boxed{c_{00} \mid c_{01} \mid c_{02} \mid c_{03}}_{416} + \boxed{c_{10} \mid c_{11} \mid c_{12} \mid c_{13}}_{424} + \boxed{c_{20} \mid c_{21} \mid c_{22} \mid c_{23}}_{428} + \boxed{c_{30} \mid c_{31} \mid c_{32} \mid c_{33}}_{430}$$

FIGURE 4



**FIGURE 5**

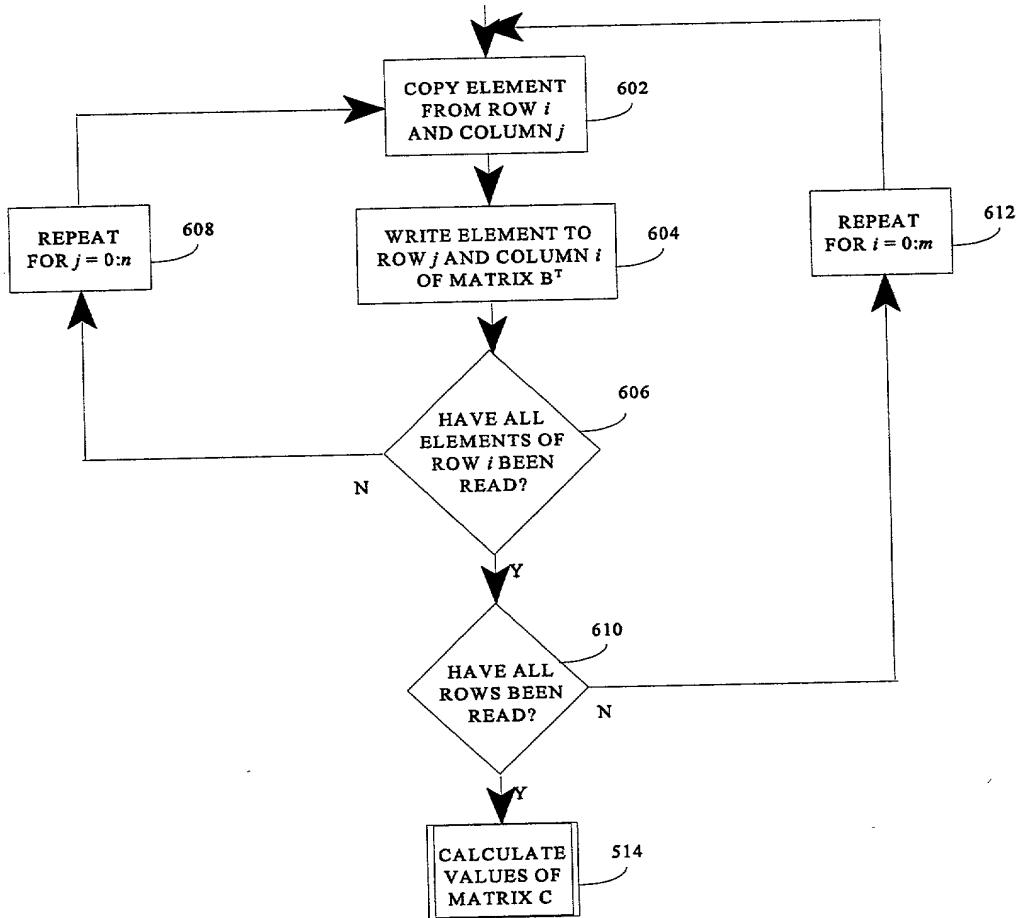


FIGURE 6

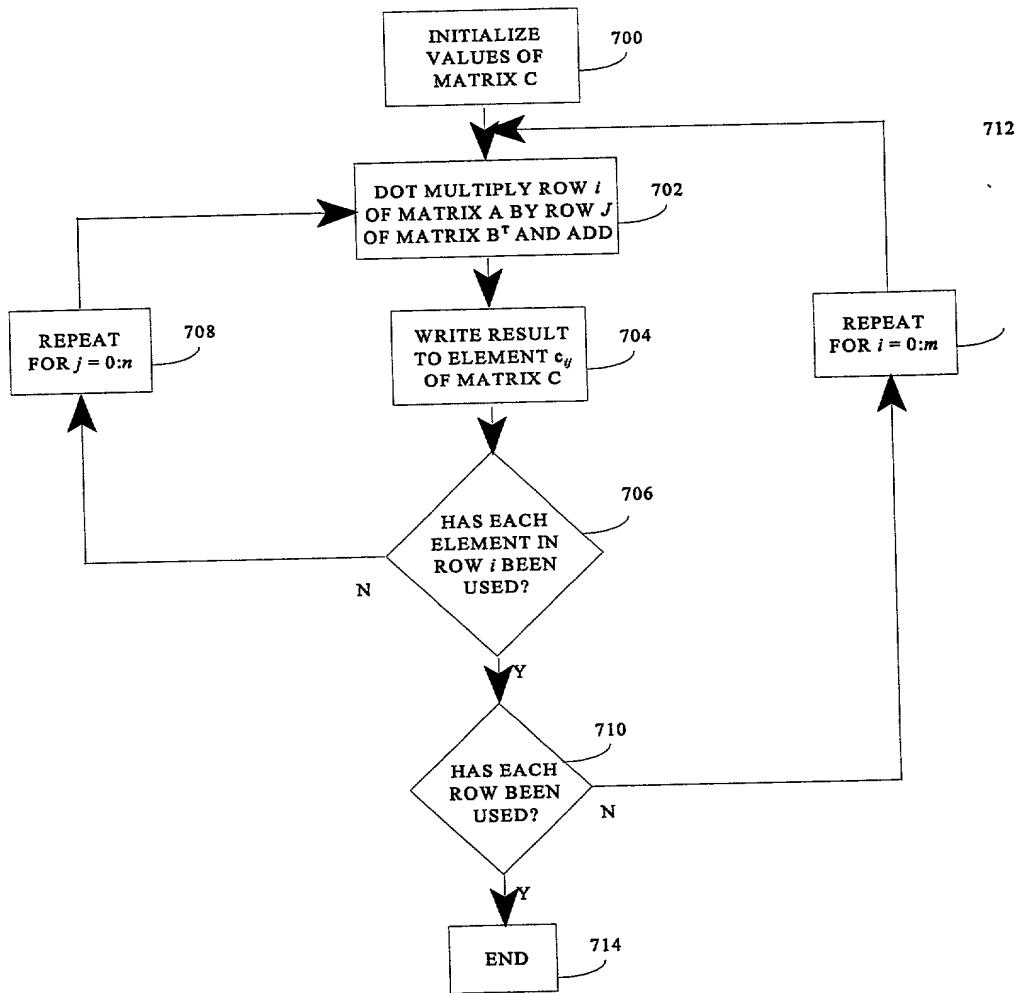


FIGURE 7

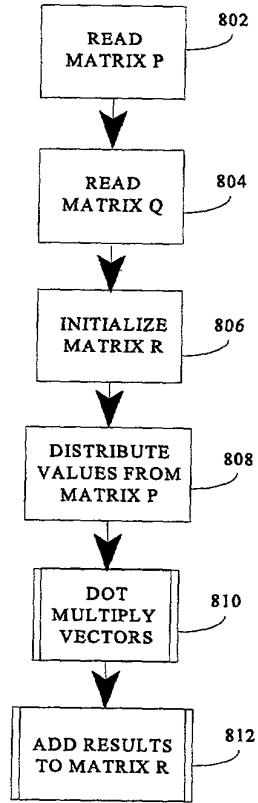


FIGURE 8A

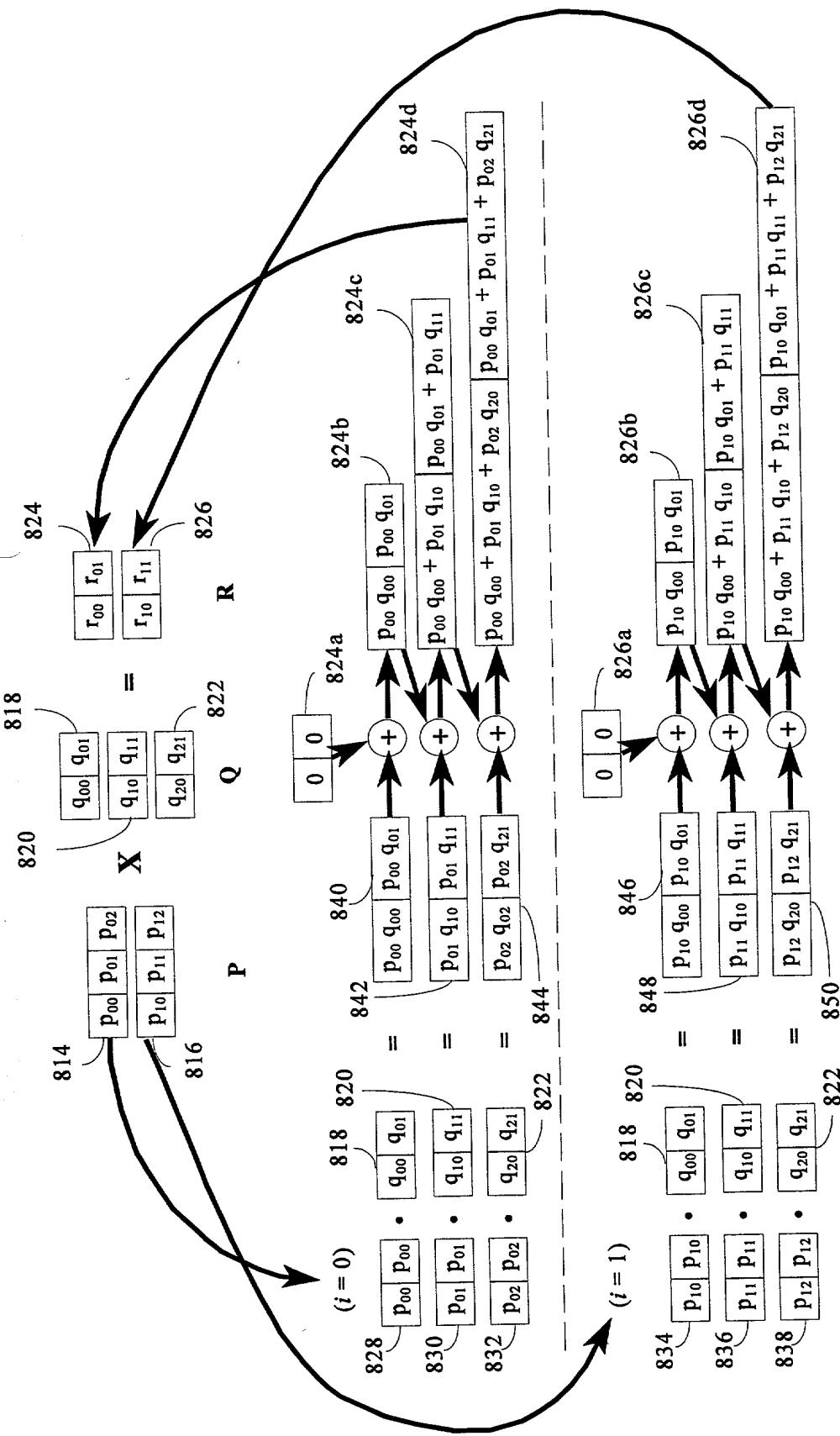


FIGURE 8B

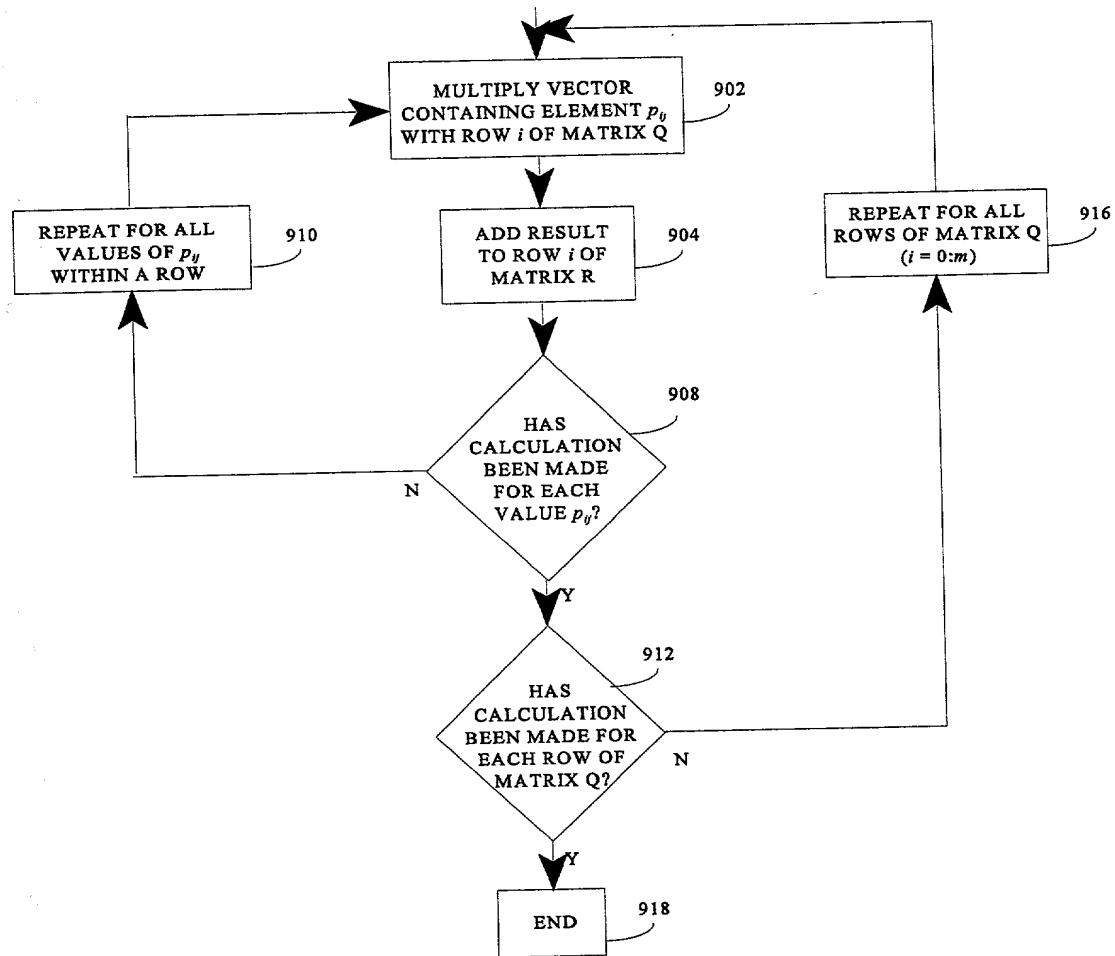


FIGURE 9

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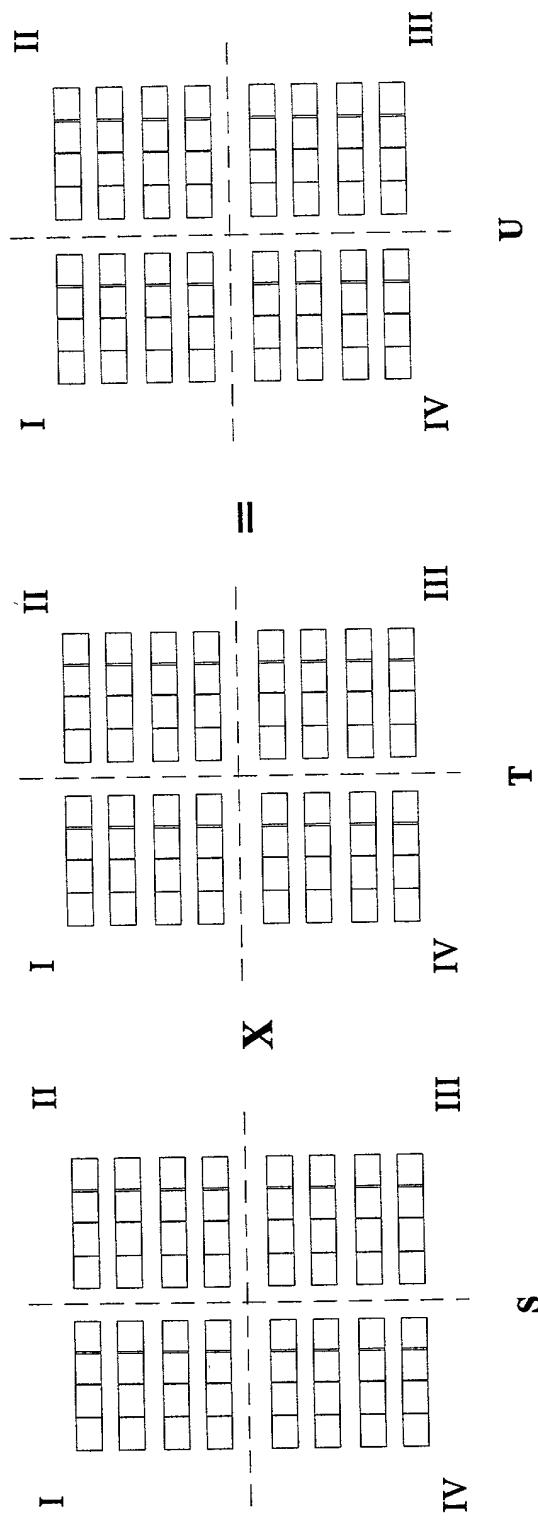


FIGURE 10

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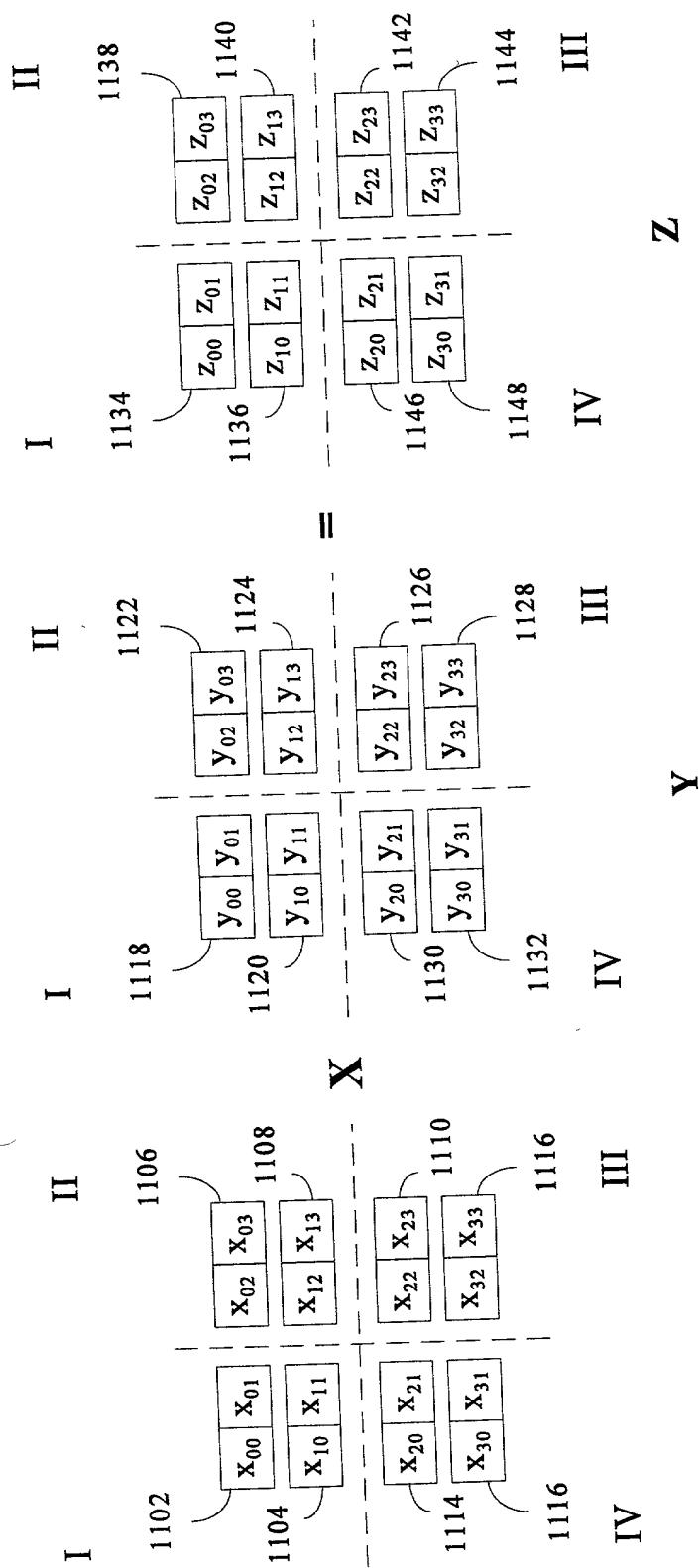


FIGURE 11

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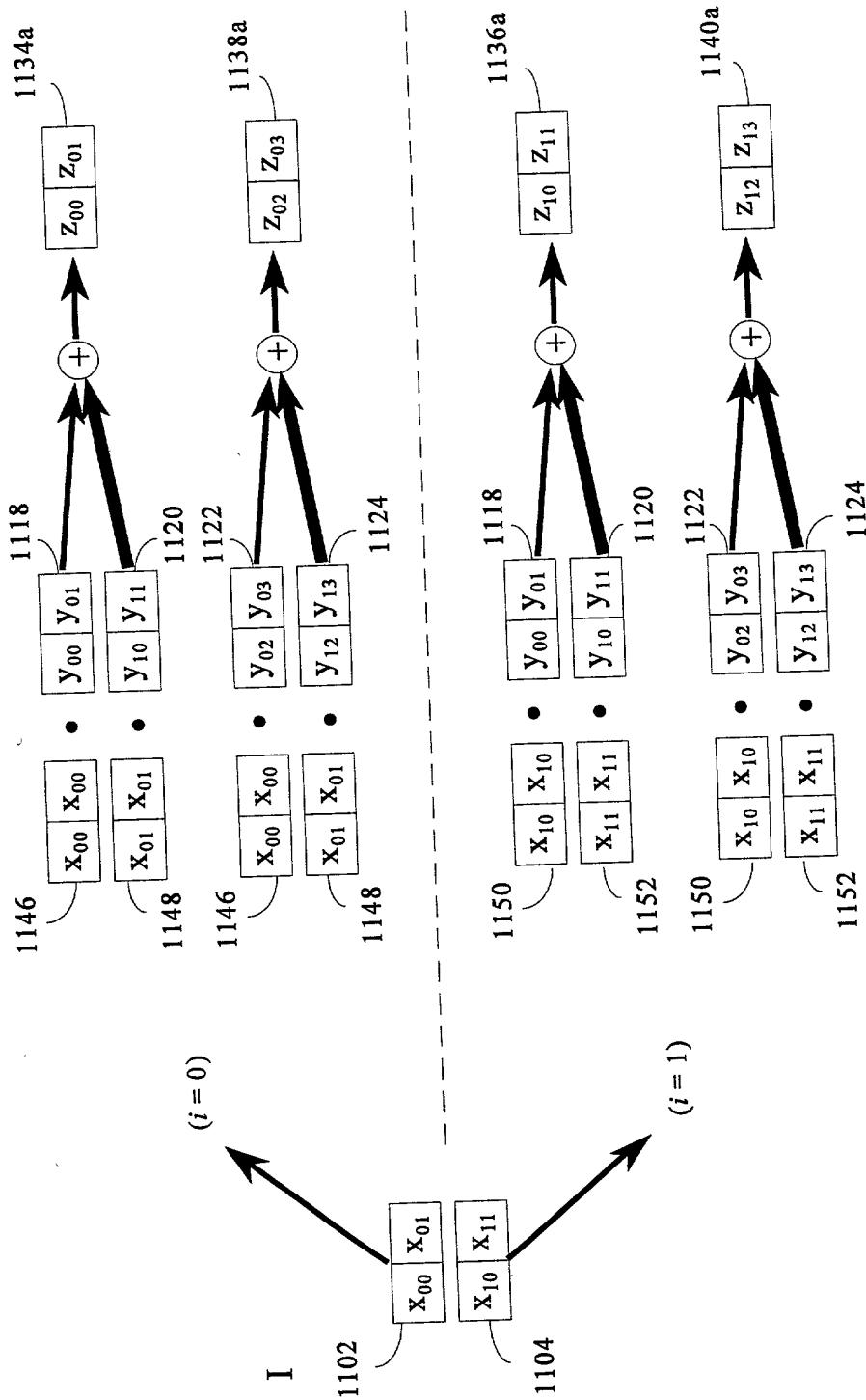


FIGURE 11A

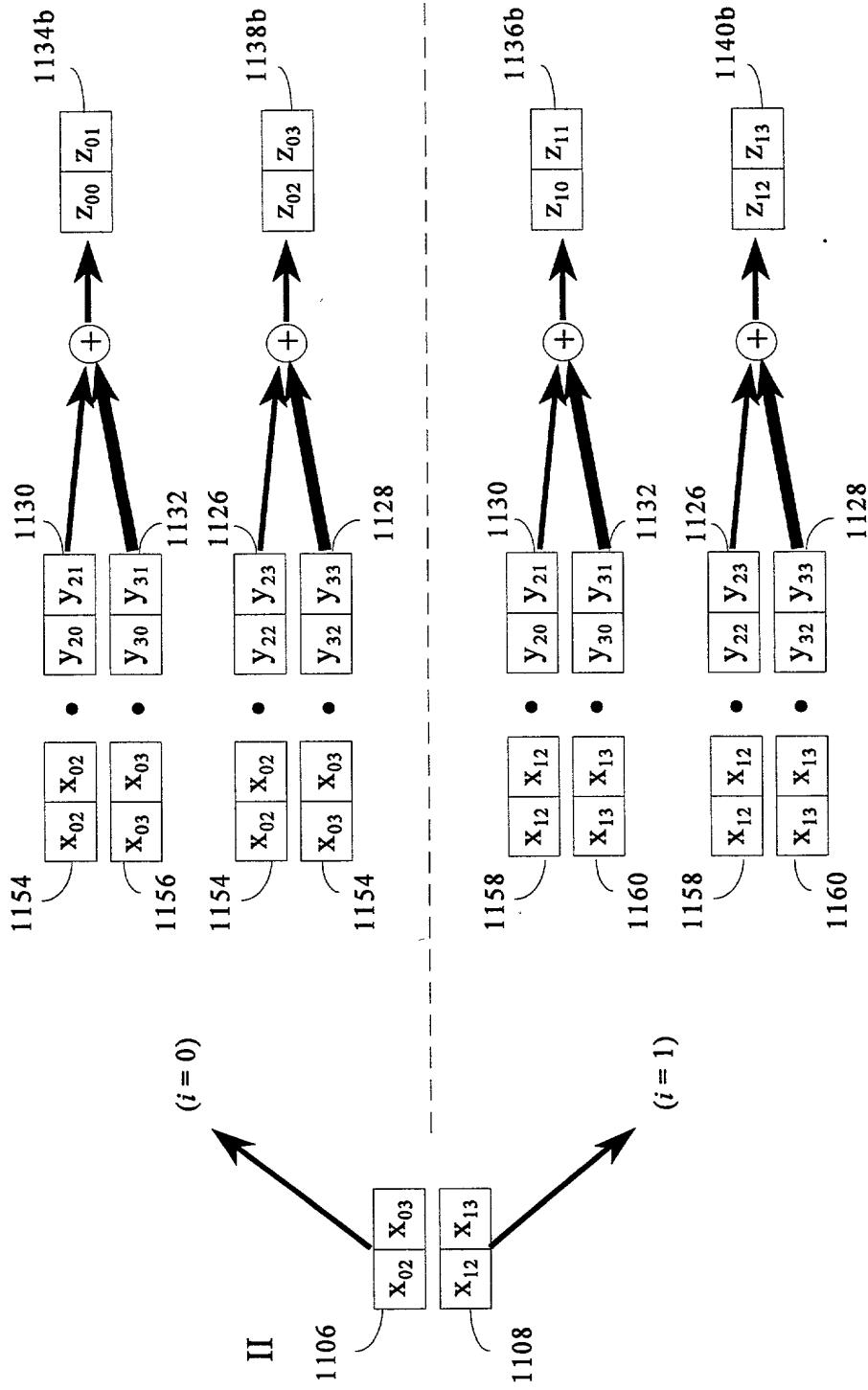


FIGURE 11B

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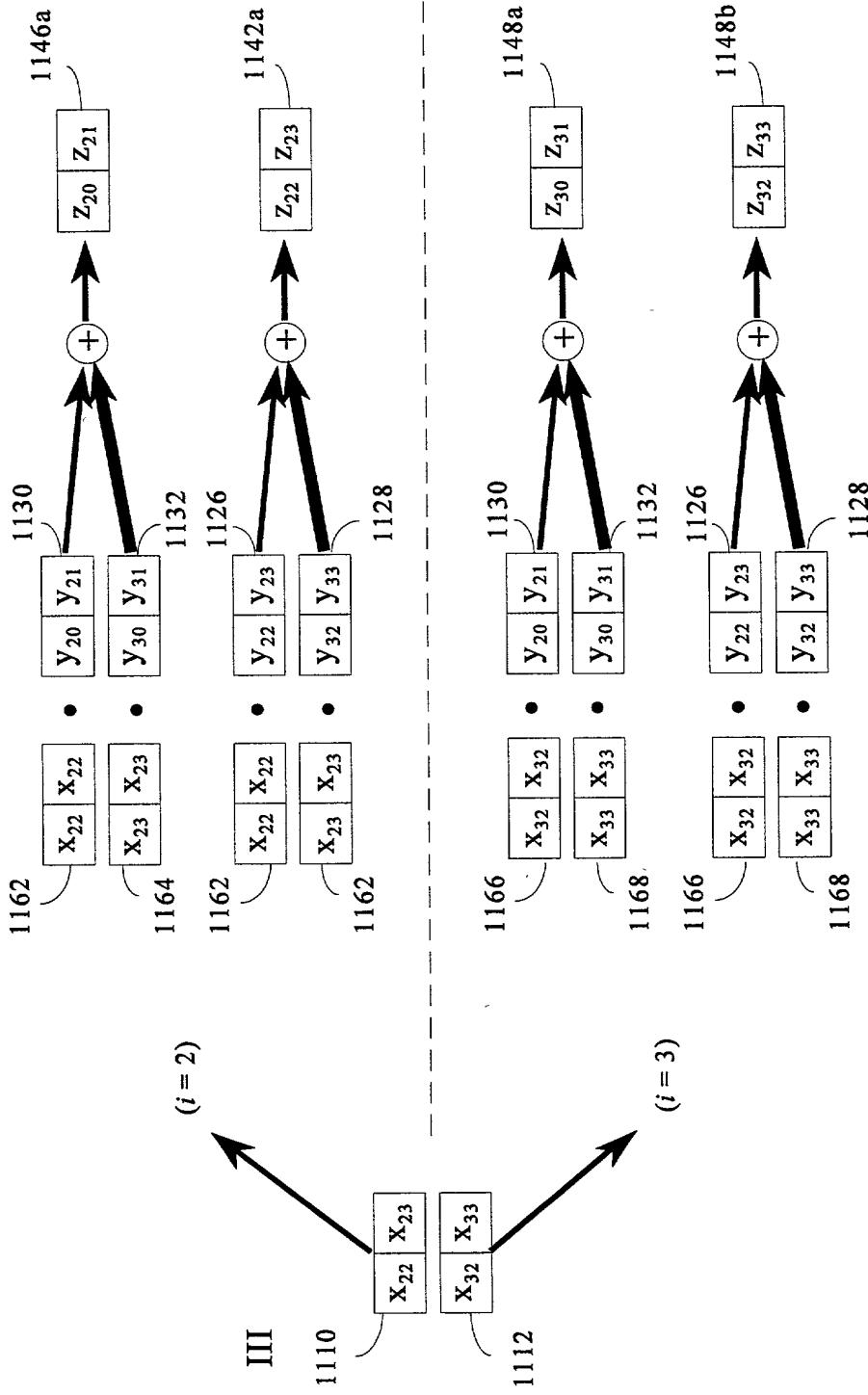


FIGURE 11C

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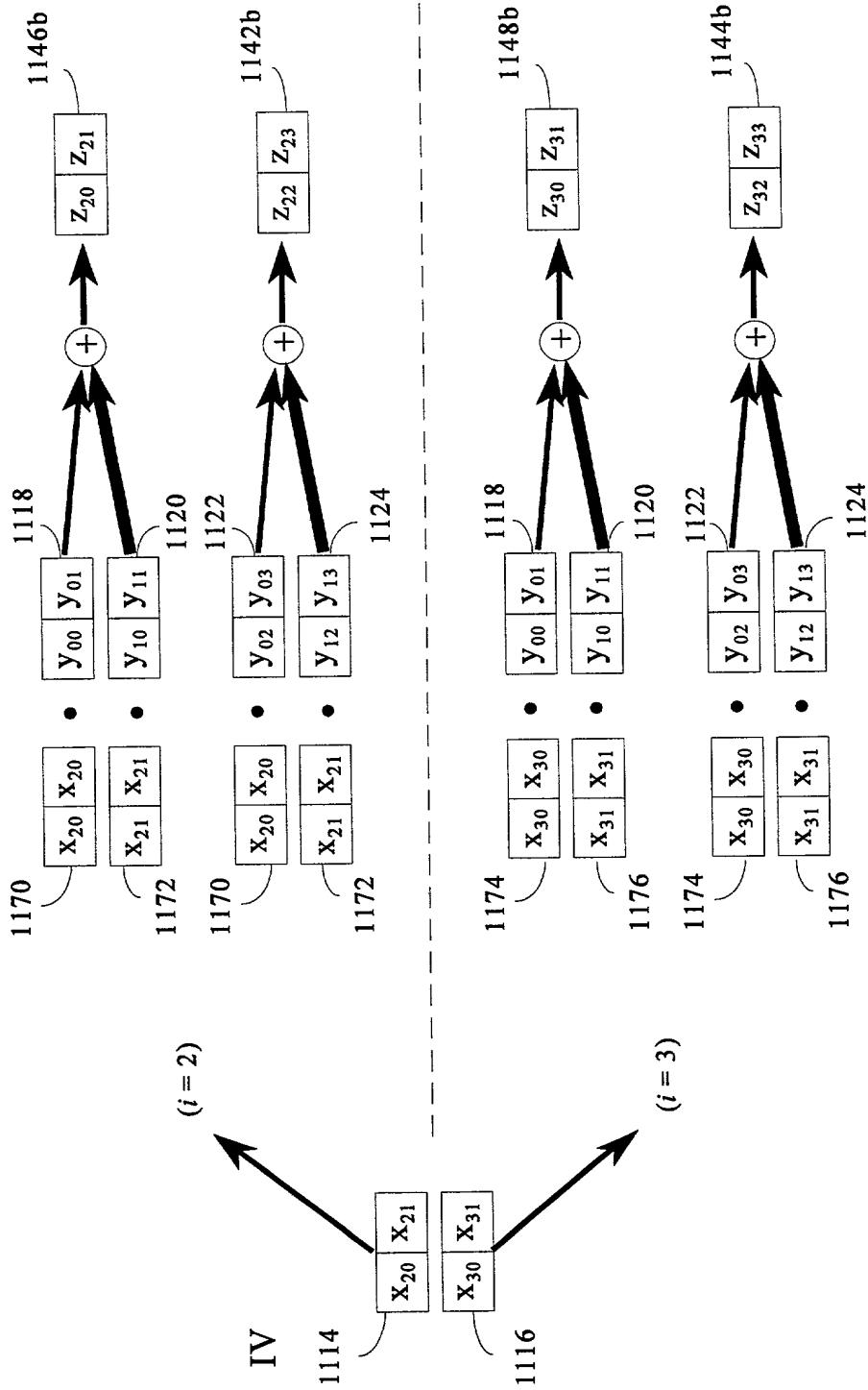


FIGURE 11D